



Figure 1. FGF-20

+1 M A P L A E V G G F L G G L E G L G Q Q
ATGGCTCCCTTAGCCGAAGTCGGGGGCTTTCTGGGCGGCCTGGAGGGCTTGGGCCAGCAG
TACCGAGGGAATCGGCTTCAGCCCCCGAAAGACCCGCGGACCTCCCGAACCCGGTCGTC
10 20 30 40 50 60

+1 V G S H F L L P P A G E R P P L L G E R
GTGGGTTTCGCAATTTCTGTTCCTCCTGCCGGGAGCGGCCGCCGCTGCTGGGCGAGCGC
CACCCAAGCGTAAAGGACAACGGAGGACGGCCCCCTCGCCGGCGGCGACGACCCGCTCGCG
70 80 90 100 110 120

+1 R S A A E R S A R G G P G A A Q L A H L
AGGAGCGCGCGGAGCGGAGCGCCCCGCGCGGGCGGGGGCTGCGCAGCTGGCGCACCTG
TCCTCGCGCGCCTCGCCTCGCGGGCGCGCCCCGCGCCCCGACGCGTCGACCCGCTGGAC
130 140 150 160 170 180

+1 H G I L R R R Q L Y C R T G F H L Q I L
CACGGCATCCTGCGCCGCCGGCAGCTCTATTGCCGCACCGGCTTCCACCTGCAGATCCTG
GTGCCGTAGGACGCGCGCGCGCTCGAGATAACGGCGTGGCCGAAGGTGGACGTCTAGGAC
190 200 210 220 230 240

+1 P D G S V Q G T R Q D H S L F G I L E F
CCCGACGGCAGCGTGCAGGGCACCCGGCAGGACCACAGCCTCTTCGGTATCTTGAATTC
GGGCTGCCGTGCGACGTCCCGTGGGCGCTCTGGTGTGCGAGAAGCCATAGAACCTTAAG
250 260 270 280 290 300

+1 I S V A V G L V S I R G V D S G L Y L G
ATCAGTGTGGCAGTGGGACTGGTCACTATTAGAGGTGTGGACAGTGGTCTCTATCTTGA
TAGTCACACCGTCACCCCTGACCAGTCATAATCTCCACACCTGTCACCAGAGATAGAACCT
310 320 330 340 350 360

+1 M N D K G E L Y G S E K L T S E C I F R
ATGAATGACAAAGGAGAACTCTATGGATCAGAGAACTTACTTCCGAATGCATCTTTAGG
TACTTACTGTTTCTCTTGAGATACTAGTCTCTTTGAATGAAGGCTTACGTAGAAATCC
370 380 390 400 410 420

+1 E Q F E E N W Y N T Y S S N I Y K H G D
GAGCAGTTTGAAGAGAACTGGTATAACACCTATTCATCTAACATATATAACATGCAGAC
CTCGTCAAACCTTCTCTTGACCATATTGTGGATAAGTAGATTGTATATATTTGTACCTCTG
430 440 450 460 470 480

+1 T G R R Y F V A L N K D G T P R D G A R
ACTGGCCGCGAGGTATTTTGTGGCACTTAACAAAGACGGAACCTCAAGAGATGGCGCCAGG
TGACCGGCGTCCATAAAACACCGTGAATTGTTTCTGCCTTGAGGTTCTCTACCGCGGTCC
490 500 510 520 530 540

+1 S K R H Q K F T H F L P R P V D P E R V
TCCAAGAGGCATCAGAAATTTACACATTTCTTACCTAGACCAGTGGATCCAGAAAGAGTT
AGGTTCTCCGTAGTCTTTAAATGTGTAAAGAATGGATCTGGTCACCTAGGTCTTTCTCAA
550 560 570 580 590 600

+1 P E L Y K D L L M Y T *
CCAGAATTGTACAAGGACCTACTGATGTACACTTGA (SEQ ID NO: 1)
GGTCTTAACATGTTCTCTGGATGACTACATGTGA (SEQ ID NO: 2)
610 620 630 640 650 660

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Figure 2. FGF-23

1	ATGCGCCGCGCCTGTGGCTGGGCCTGGCCTGGCTGCTGGCGCGGGCGCCGGACGCC	60
1	M R R R L W L G L A W L L L A R A P D A	20
61	GCGGGAACCCCGAGCGCTCGCGGGGACCGCGCAGCTACCCGCACCTGGAGGGCGACGTG	120
21	A G T P S A S R G P R S Y P H L E G D V	40
121	CGCTGGCGGCGCCTCTTCTCTCCACTCACTTCTTCTGCGCGTGGATCCCGGCGGCCG	180
41	R W R R L F S S T H F F L R V D P G G R	60
181	GTGCAGGGCAGCCGCTGGCGCCACGGCCAGGACAGCATCCTGGAGATCCGCTCTGTACAC	240
61	V Q G T R W R H G Q D S I L E I R S V H	80
241	GTGGGCGTCGTGGTCATCAAAGCAGTGTCTCAGGCTTCTACGTGGCCATGAACCGCCGG	300
81	V G V V V I K A V S S G F Y V A M N R R	100
301	GGCCGCCTCTACGGGTGCGGACTCTACACCGTGGACTGCAGGTTCCGGGAGCGCATCGAA	360
101	G R L Y G S R L Y T V D C R F R E R I E	120
361	GAGAACGGCCACAACACCTACGCCTCACAGCGCTGGCGCCGCCGCGGCCAGCCCATGTT	420
121	E N G H N T Y A S Q R W R R R G Q P M F	140
421	CTGGCGCTGGACAGGAGGGGGGGCCCCGCCAGGCGGCCGGACGCGGCGGTACCACCTG	480
141	L A L D R R G G P R P G G R T R R Y H L	160
481	TCCGCCCACTTCTGCCCGTCTGGTCTCCTGA	513 (SEQ ID NO: 3)
161	S A H F L P V L V S *	171 (SEQ ID NO: 4)

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Fgf-21	MAPLAEVGGF	LGGLEGLGQQ	VGSHFLLPPA	GERPPLLGER	RSAAERSA.R
fgf-9	MAPLGEVGNV	FGVQDAV..P	FGNVPVLPV.	.DSPVLLSDH	LGQSEAGGLP
fgf-16	---MAEVGGV	FASLDWDLHG	FSSSLGNVPL	ADSPGFLNER	LGQIEGKLQR
fgf-22	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
xfgf-20	MAPLADVGTG	LGGYDALG.Q	VGSHFLLPPA	KDSPLLFNDP	LAQSERLS.R
fgf-21	GGPGAAQLAH	LHGILRRRQL	YCRTGFHLQI	LPDGSVQGTR	QDHSLFGILE
fgf-9	RGPVTDLDH	LKGILRRRQL	YCRTGFHLEI	FPNGTIQGTR	KDHSRFGILE
fgf-16	GSP..TDFAH	LKGILRRRQL	YCRTGFHLEI	FPNGTVHGTR	HDHSRFGILE
fgf-22	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~XGMLA
xfgf-20	SAP..SDLSH	LQGILRRRQL	YCRTGFHLQI	LPDGNVQGTR	QDHSRFGILE
fgf-21	FISVAVGLVS	IRGVDSGLYL	GMNDKGELYG	SEKLTSECIF	REQFEENWYN
fgf-9	FISIAVGLVS	IRGVDSGLYL	GMNEKGELYG	SEKLTQECVF	REQFEENWYN
fgf-16	FISLAVGLIS	IRGVDSGLYL	GMNERGELYG	SKKLTRECVF	REQFEENWYN
fgf-22	SYSVAVAMVT	TRGVASRLYL	DSNHKGDLYA	SVRLAQESVF	WGQSEENWSY
xfgf-20	FISVAIGLVS	IRGVDTGLYL	GMNDKGELFG	SEKLTSECIF	REQFEENWYN
fgf-21	TYSSNIYKHG	DTGRRYFVAL	NKDGTPRDGA	RSKRHQKFTH	FLPRPVDPER
fgf-9	TYSSNLYKHV	DTGRRYYVAL	NKDGTTPREGT	RTKRHQKFTH	FLPRPVDPAK
fgf-16	TYASTLYKHS	DSERQYYVAL	NKDGSPPREGY	RTKRHQKFTH	FLPRPVDPSK
fgf-22	THSSNLYKHV	DTRRYYVPL	NQGATPSAGT	RSLRRQNYTH	VLPRPVDPAK
xfgf-20	TYSSNLYKHG	DSGRRYFVAL	NKDGTTPRDGT	RAKRHQKFTH	FLPRPVDPEK
fgf-21	VPELYKDILLM	YT*	(SEQ ID NO: 2)		
fgf-9	VPELYKDILS	QS*	(SEQ ID NO: 5)		
fgf-16	LPSMSRDLFH	YR*	(SEQ ID NO: 6)		
fgf-22	VPELYKDILS	QS*	(SEQ ID NO: 7)		
xfgf-20	VPELYKDLMG	YS*	(SEQ ID NO: 8)		

FIG. 3

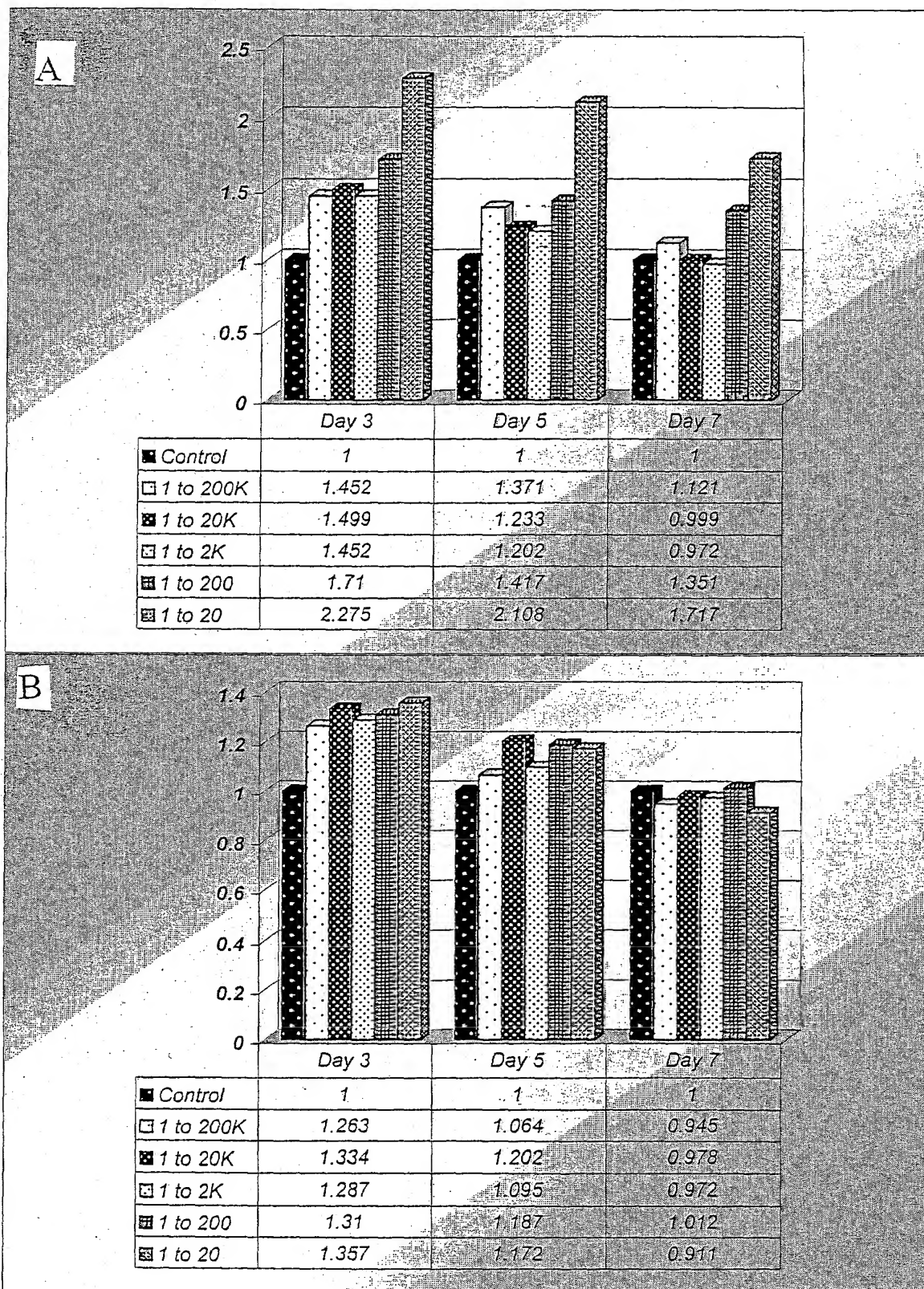


FIG. 4

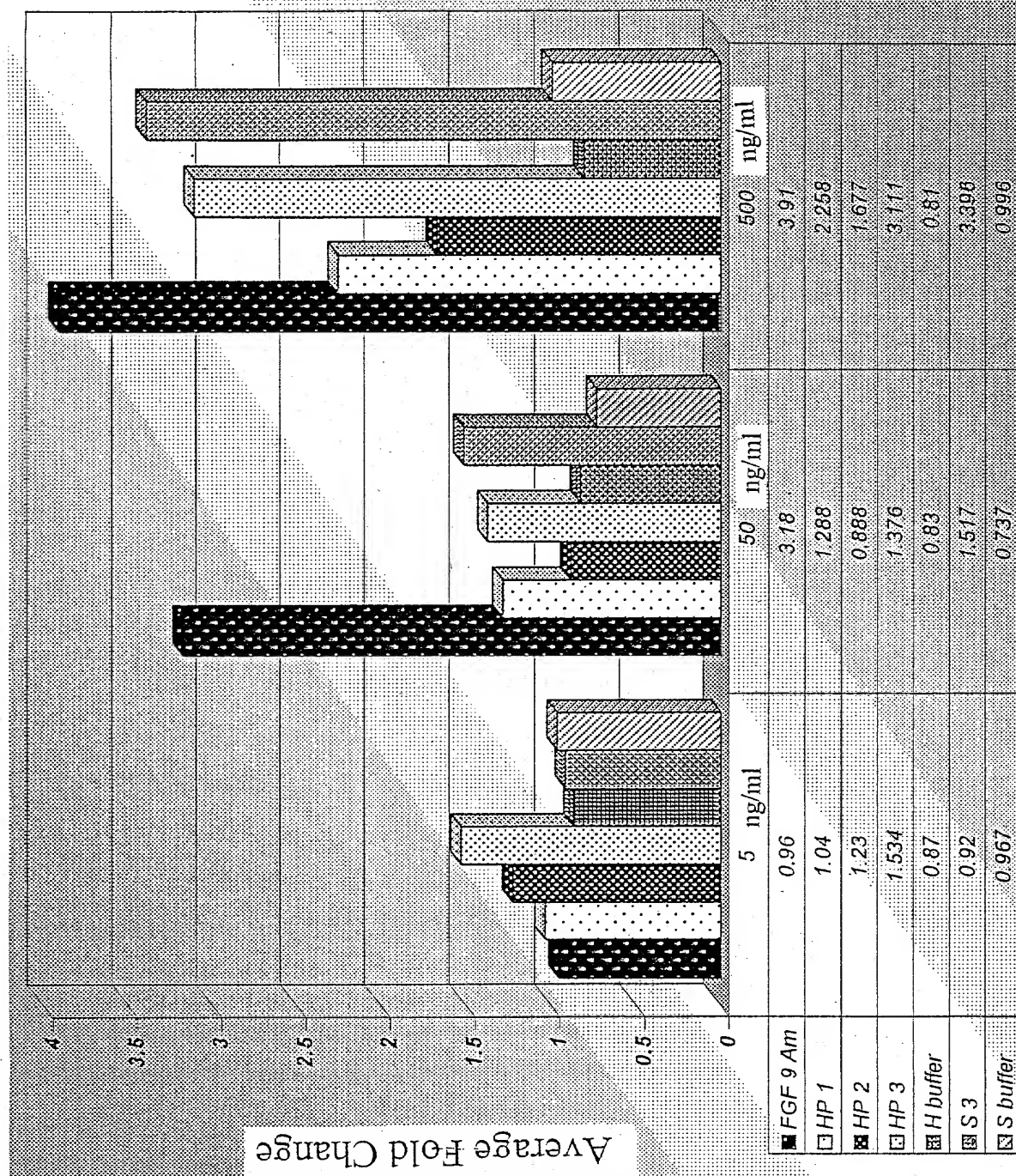


FIG. 5

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FGF-2

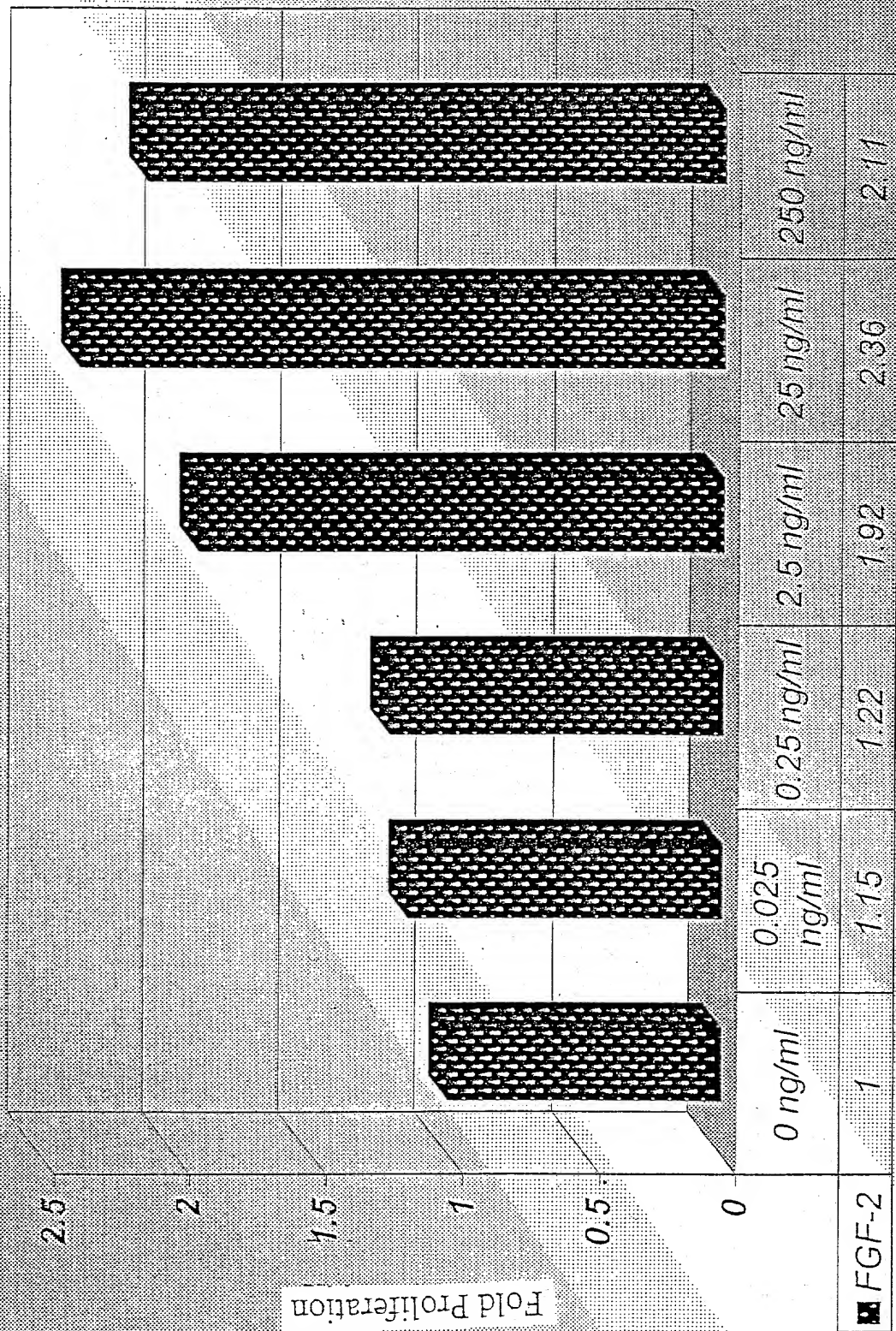


FIG. 6A

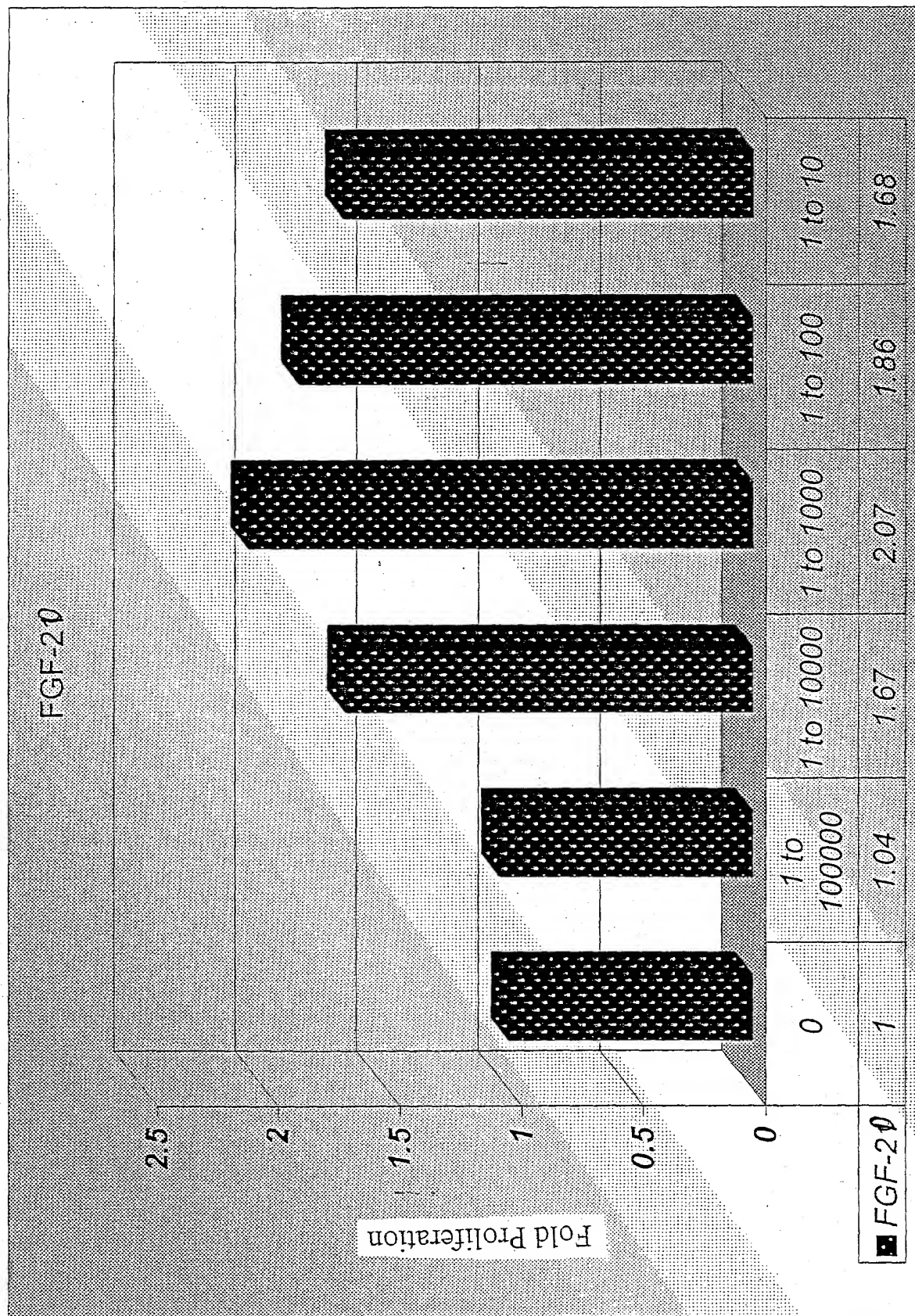


FIG. 6B

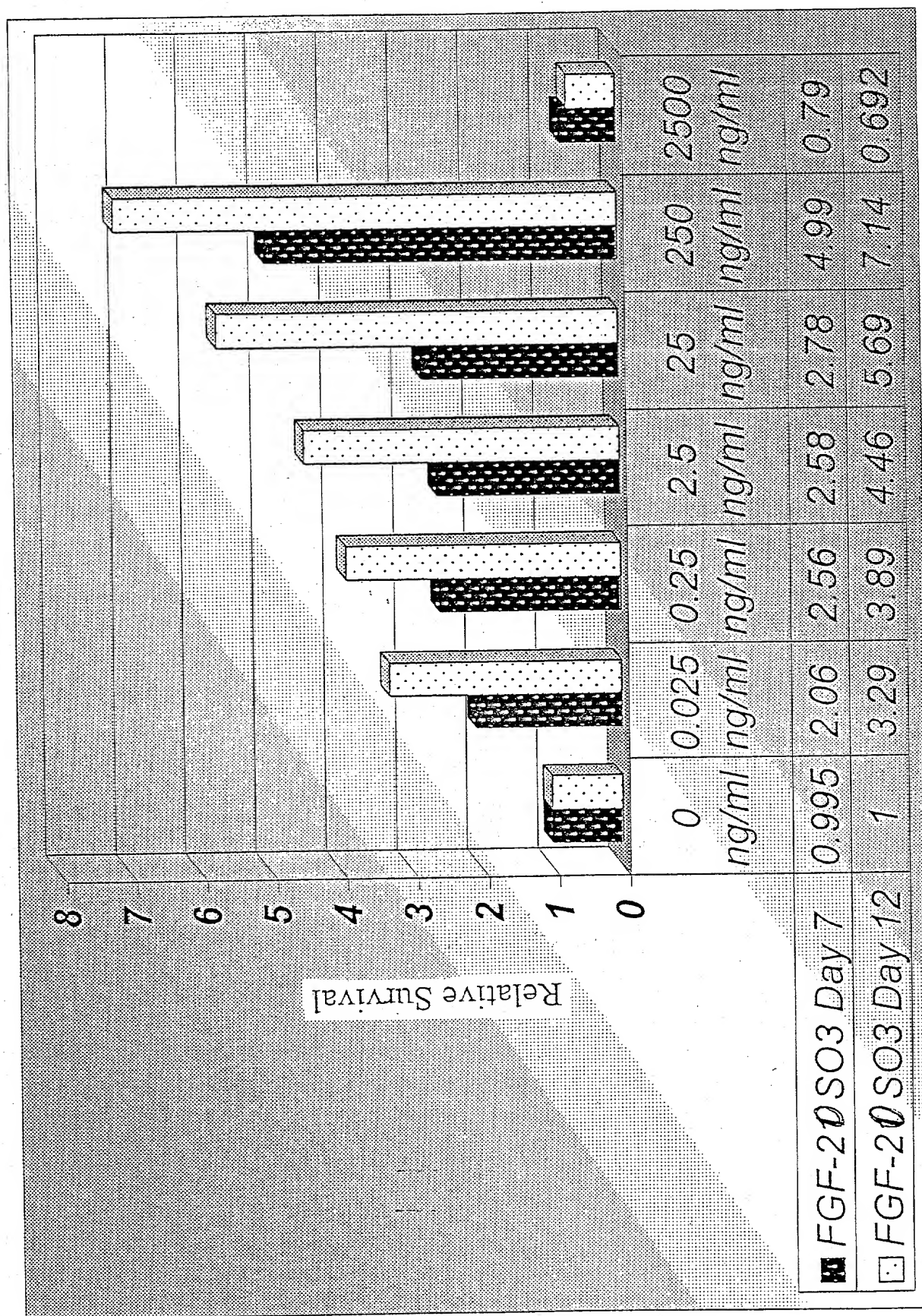


FIG. 7A

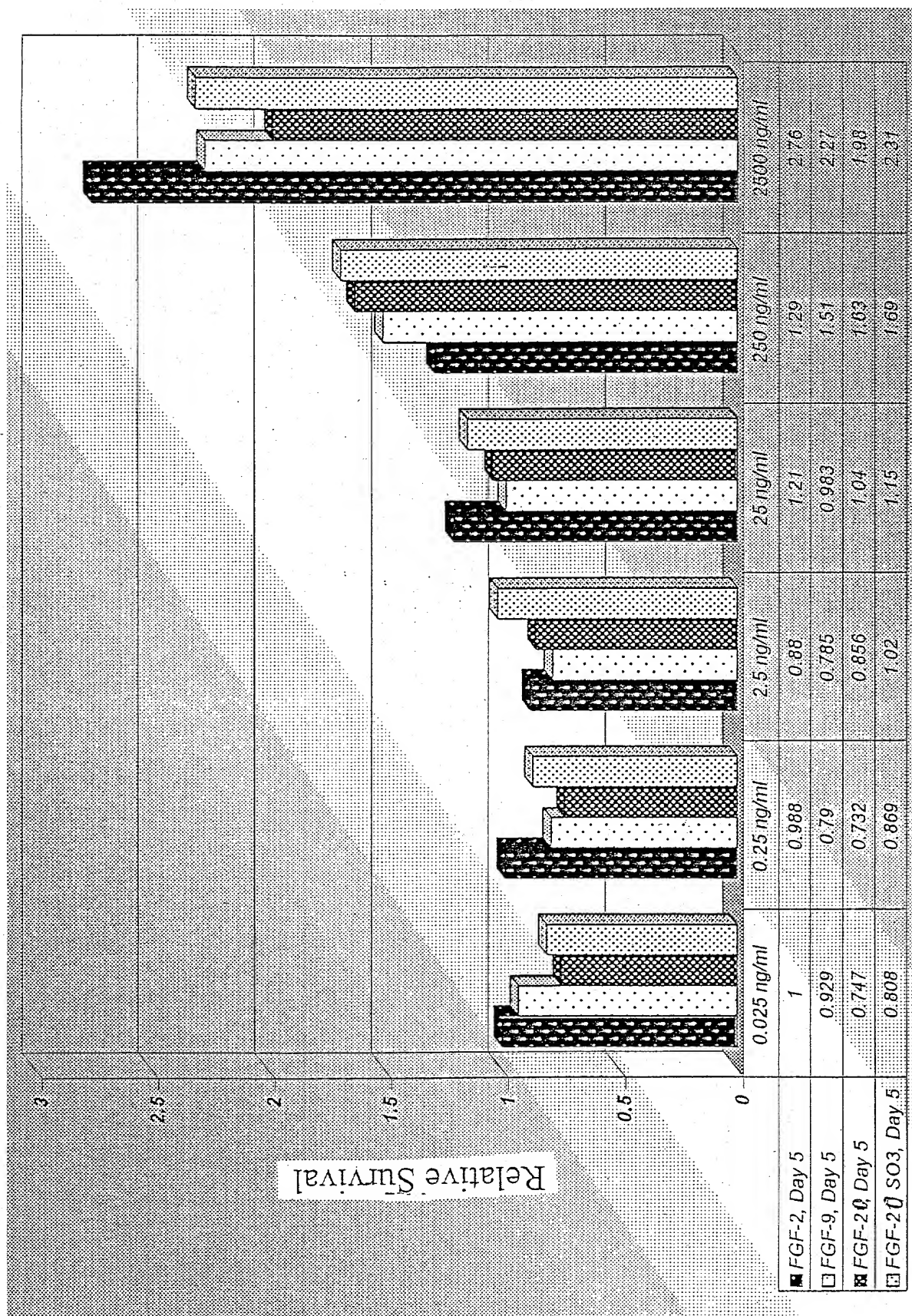


FIG. 7B

204040" 9495000F

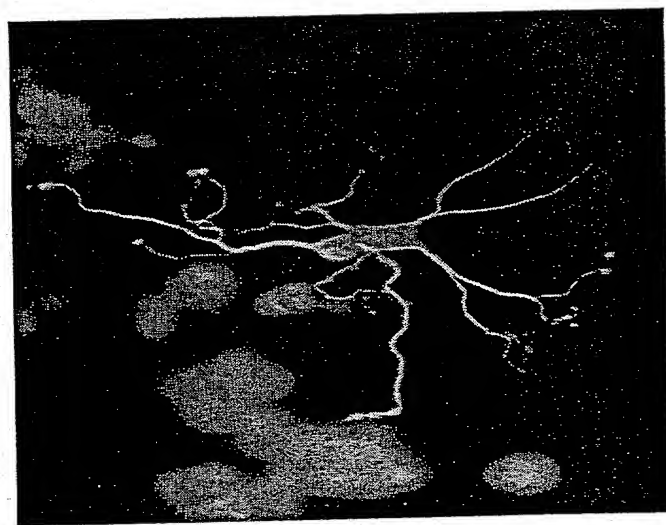
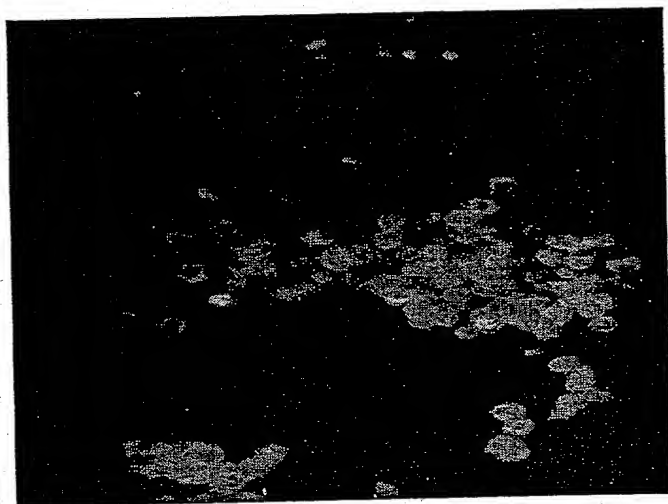


FIG. 8

Primary Rat Neurons Treated with Growth Factors for 5 Days

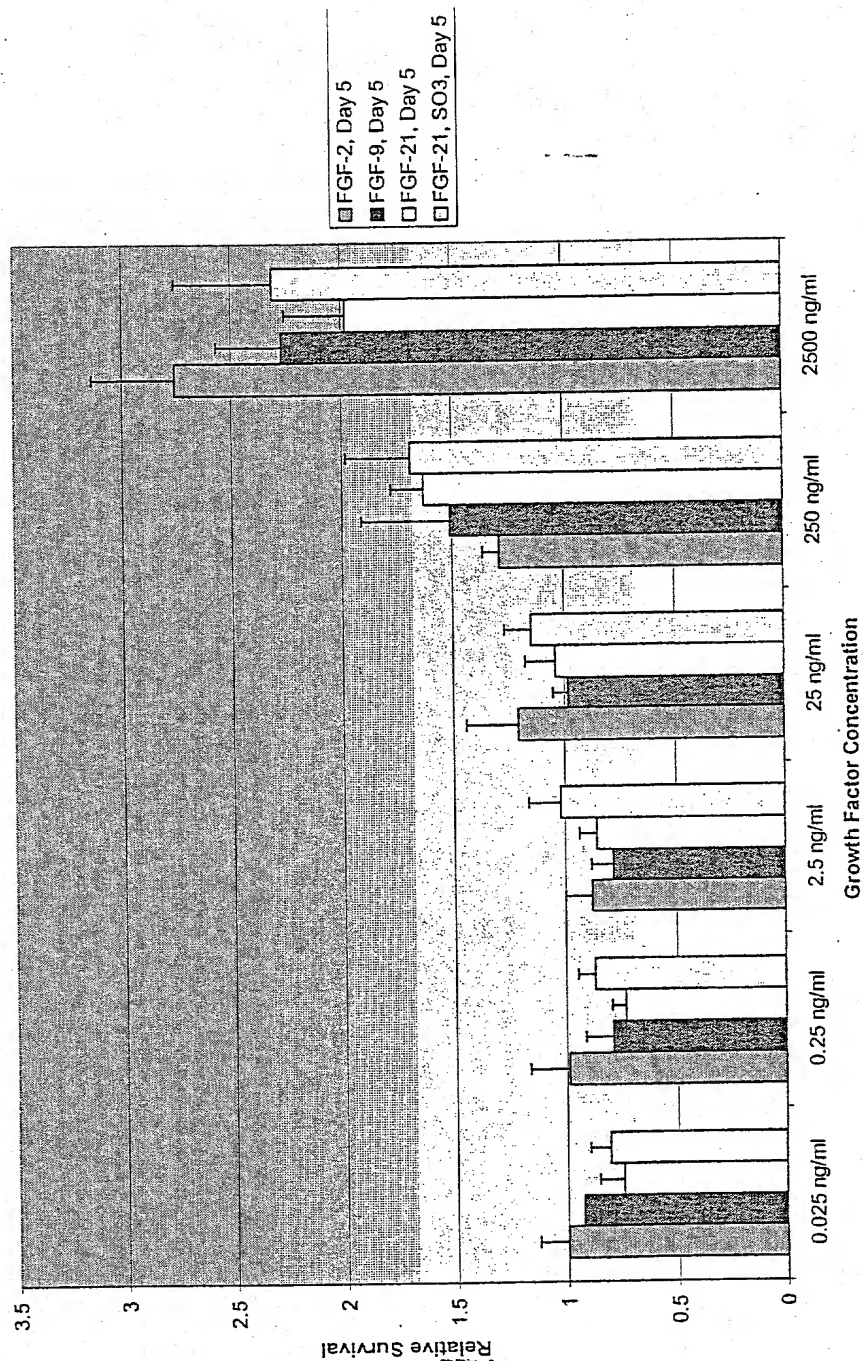


FIG. 9